Page 2 of 3 ATTY. DOCKET NO. APPLICATION NO. 0942.4500004/RWE/BJD/MTT 09/677,574 FORM PTO-1449 APPLICANT YANG et al. INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** October 3, 2000 Art Unit 1652 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE CLASS SUB-CLASS FILING DATE NAME INITIAL AΑ AB AC 3 1 2002 AD ΑE AF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AL No Yes AM Νo Yes No Yes AO No Yes ΔP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Creighton, S., et al., "Base Mispair Extension Kinetics," J. Biol. Chem. 267:2633-2639, American AR <u>36</u> Society for Biochemistry and Molecular Biology (1992) Eckert, K.A. and Kunkel, T.A., "Fidelity of DNA synthesis catalyzed by human DNA polymerase  $\alpha$  and HIV-1 reverse transcriptase: effect of reaction pH," *Nucleic Acids Res. 21*:5212-5220, Oxford AS <u>36</u> University Press (1993) Gao, G. et al., "Conferring RNA polymerase Activity to a DNA polymerase: A single residue in reverse transcriptase controls substrate selection," Proc. Nat. Acad. Sci. USA 94:407-411, The ΑT <u>36</u> National Academy of Sciences (January 1997) DATE CONSIDERED / **EXAMINER** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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AA1	4,79	5,699	01/03/1989	Tabor et al.	435	i	5	01/14/1987
AB1	4,88	9,818	12/26/1989	Gelfand et al.	435	;	194	06/17/1987
AC1	4,96	2,020	10/09/1990	Tabor et al.	435	;	6	07/12/1988
AD1	5,04	7,342	09/10/1991	Chatterjee, D.K.	435	;	194	08/10/1989
AE1	5,07	5,217	12/24/1991	Weber, J.L.	435		6	04/21/1989
AF1	5,07	9,352	01/07/1992	Gelfand et al.	536	<u> </u>	27	05/15/1990
AG1	5,17	3,411	12/22/1992	Tabor et al.	435	;	91	04/12/1991
AH1	5,27	0,170	12/14/1993	Schatz et al.	435	<u> </u>	7.37	10/16/1991
AI1	5,27	0,179	12/14/1993	Chatterjee, D.K.	435	<u> </u>	69.1	01/28/1992
AJ1	5,30	6,616	04/26/1994	Lupski et al.	435	i	6	06/06/1991
AK1	5,36	4,759	11/15/1994	Caskey et al.	435	<u> </u>	6	01/31/1991
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	AB2		4,553	12/20/1994	-	Gelfand et al.	435		252.3	08/13/1990
	AC2		8,602	01/03/1995	$\neg$	Polymeropoulos et al.	435		6	11/27/1991
	AD2	<del>-  </del>	9,818	04/25/1995		Pavey et al.	435		91.21	06/24/1988
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	AH2		6,149	07/25/1995	_	Barnes, W.M.	435		91.2	01/09/1992
	AI2		5,166	10/03/1995		Malker, G.T.	435		6	03/18/1994
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RV	AA3	5,46	8,610	11/21/1995	Polymeropoulos et al.	435	6	06/09/1993
	АВЗ	5,46	8,613	11/21/1995	Erlich et al.	435	6	03/09/1990
	AC3	5,49	8,523	03/12/1996	Tabor et al.	435	6	07/14/1994
	AD3	5,51	2,462	04/30/1996 .	Cheng, S.	435	91.2	02/25/1994
	AE3	н153	1	05/07/1996	Blumentals et al.	435	194	04/18/1994
	AF3	5.55	6,955	09/17/1996	Vergnaud, G.	536	24.31	09/08/1994
1	AG3		5,340	10/15/1996	Chenchik et al.	435	91.2	01/27/1995
	АНЗ		9,672	02/04/1997	Liang et al.	435	6	12/08/1994
	AI3		4,365	03/25/1997	Tabor et al.	435	6	11/10/1994
	AJ3		8,711	04/08/1997	Geland et al.	435	194	02/06/1995
1011	AK3		4,833	04/29/1997	Gelfand et al.	435	194	06/07/1995
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	AM3	WO 9	3/06239	04/01/1993	WIPO			Yes No
	AN3	EP 0	386 859 B1	02/01/1995	Europe			Yes No
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	AD4	1	9,292		Bedford et al.	435		6	05/31/1996					
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	AF4		6,842	11/02/1999	Wurst, H.	435		320.1	06/07/1995					
1014	AG4		1,645	12/14/1999	Slater et al. Hughes et al.	435		6	09/06/1996					
RU	AH4	0,01	5,668	01/18/2000	nugites et al.	1,2,5			07,00,1770					
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	AS	9	Resistant Va	ariant of Human I	d, V.R., "Increased Polymerase mmunodeficiency Virus Type 1 Rety for Microbiology (July 1996	everse	ty of E	89G, a Nucle riptase," <i>J</i>	eoside Analog- . Virology
	AT	9	Dunn, J.J., Locations of (1983).	and Studier, F.W f T7 Genetic Elem	J., "Complete Nucleotide Sequeno ments," J. Mol. Biol. 166:47	ce of 7-535,	Bacteri Academ	ic Press Inc	. (London) Ltd
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	AS	<u>12</u>	Gutman, P.D.	. and Minton, K.W Olymerase," Nucle	I., "Conserved sites in the 5'⊣ eic Acids Res. 21:4406-4407,	3' exc Oxfor	onucleas d Unive	se domain of rsity Press	Escherichia (1993).		
	Heath, D.D. et al., "PCR primed with VNTR core sequences yields species specific patterns and hypervariable probes," Nucl. Acids Res. 21:5782-5785, Oxford University Press (1993).										
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	AS	<u>15</u>	Jannasch, H eubacterial	.W. et al., "Th genus Thermoto	ermotoga neapolitana <b>sp. nov</b> ga," Arch. Microbiol. 150 <b>:10</b>	. of 1 3-104	the exti	remely therm ger-Verlag (	ophilic, (1988).			
	AT	<u>15</u>	Joyce, C.M. et al., "Nucleotide Sequence of the Escherichia coli polA Gene and Primary Structure of DNA Polymerase I," J. Biol. Chem. 257:1958-1964, American Society for Biochemistry and Molecular Biology, Inc. (1982).									
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	AS	<u>16</u>	Joyce, C.M. Rev. Bioch	and Steitz, T.A. nem. 63:777-822,	, "Function and Structure Rela Annual Reviews Inc. (1994).	tionsh	ips in I	DNA Polymera	ases," Ann.
	AT	<u>16</u>	Kaboev, O.K Bacillus s (1981).	. et al., "Purif stearothermophi	ication and Properties of Deox lus," J. Bacteriology 145:	yribon 21-26,	ucleic / America	an Society f	or Microbiology
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	AS	<u>17</u>	Consideration		, "Extremely Thermophilic Arch logy Progress 4:47-62, Americ ers (1988).				
	AT	17	Klausner, A. BIO/TECH.	. and Wilson, T., p. 471-478, Natu	"Gene Detection Technology Opere Publishing Company (1983).	ens Do	ors for	Many Indust	tries,"
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	AS	<u>18</u>	Lau, L.F. ar	nd Nathans, D., " of cultured mouse	Uldentification of a set of gene cells," EMBO J. 4:3145-3151,	es exp	pressed Press Lt	during the ( d (1985).	GO/G1		
	AT	Lawyer, F.C. et al., "Isolation, Characterization, and Expression in Escherichia coli of the DNA Polymerase Gene from Thermus aquaticus," J. Biol. Chem. 264:6427-6437, The American Society for Biochemistry and Molecular Biology, Inc. (1989).									
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	AS	<u>19</u>	Leavitt, M.I polymerases USA (1989).	C. and Ito, J. "T " Proc. Natl.	5 DNA polymerase: Structural-fu Acad. Sci. USA 86:4465-4469,	nctio Natio	nal rela onal Aca	ationships t ademy of Sci	to other DNA ences of the
	AT	<u>19</u>	Lee, C.C. e Oxidase," S	t al., "Generati cience 239:1288	on of cDNA Probes Directed by A -1291, American Association for	mino /	Acid Sec Advancem	quence: Clor ment of Scie	ning of Urate ence (1988).
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	AS	<u>20</u>	Lin, JJ. a	and Kuo, J., "AFL ing," <i>FOCUS</i> 17:6	.P™: A Novel PCR-Based Assay fo 66-70, Life Technologies, Inc.	or Plar (1995)	nt and E	Bacterial DN	A
	AT	<u>20</u>	DNA Mapping	et al., "Identif Techniques," Pla ular Biology (Jun	ication of Molecular Markers i ant Mol. Biol. Reporter 14 ne <b>1996).</b>	n Soyb :156-1	ean Com 69, Inte	ernational S	ociety for
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	AT .	<u>22</u>	Okayama, H. 2:161-170,	and Berg, P., "H American Society	ligh-Efficiency Cloning of Full for Microbiology (1982).	Lengt	h cDNA,	" Mol. Cel	l. Biol.		
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	AT	<u>24</u>	Polymerase 1	from Escherich	Chains Involved in Catalysis in a coli," J. Biol. Chem. 2 iology, Inc. (1992).				
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	AS	<u>25</u>	Reha-Krantz the PP <sub>i</sub> Anal (1993).	, L.J. et al., " .og Phosphonoacet	Bacteriophage T4 DNA ic Acid," J. Virolo	Polymerase gy 67:60-66	Mutat 5, Ame	ions T erican	hat Confer S Society for	Sensitivity to Microbiology	
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	AT	<u>27</u>	Slater, M.R. Derivatives,	er, M.R. et al., "DNA Polymerase I of Thermotoga neaopolitana (Tne) and Mutant vatives," Genome Science Technol. 1:47, Abstract No. A-33, Mary Ann Liebert, Inc. (1995).							
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	AT .	<u>29</u>	limmutable s	ites in vivo wit	th	tagenesis of Thermus aquati the crystal structure," Proc nces of the USA (September 199	. Nat	DNA poly	merase I: C ad. Sci. U	oncordance of SA 93:9670-	
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